



OFFICE OF THE GOVERNOR OF THE COMMONWEALTH OF VIRGINIA

# DATA GOVERNANCE ROADSHOW

CHIEF DATA OFFICER CARLOS RIVERO

# WHY DATA GOVERNANCE?

- To ensure data are sound, **SECURE**, and accessible to qualified users
- To improve **PRODUCTIVITY** and efficiency
- To increase the **VALUE** of the commonwealth's data assets by guiding and enabling its evolution from information to intelligence
- To promote data discovery, exploration, integration, and sharing through the implementation of enterprise **STANDARDS**

# CHIEF DATA OFFICER

- **GUIDES** the development of enterprise standards, policies, and best practices to ensure the organization's data holdings *increase* in **VALUE** over time
- **LIAISE** between Mission and Technology Programs
- **LEADS** enterprise data governance across the Commonwealth
- **PROMOTES** secure data sharing

# DATA VALUE CHAIN

- A data value chain describes the **EVOLUTION** of data from information to intelligence within an organization.
- It encapsulates the various **FORMS** data can take as organizational units transform it to fit their needs.
- As such, its inherent **VALUE** increases the more it is used.
- A **FEEDBACK** loop is created when changes to data collection programs are implemented due to the identification of knowledge gaps.
- Thus, supporting a virtuous cycle of **CONTINUOUS IMPROVEMENT** and increasing the value of the organization's data assets.

# *Actionable Decisions*

**INTEGRATE**

**INTELLIGENCE**

**ASSIMILATE**

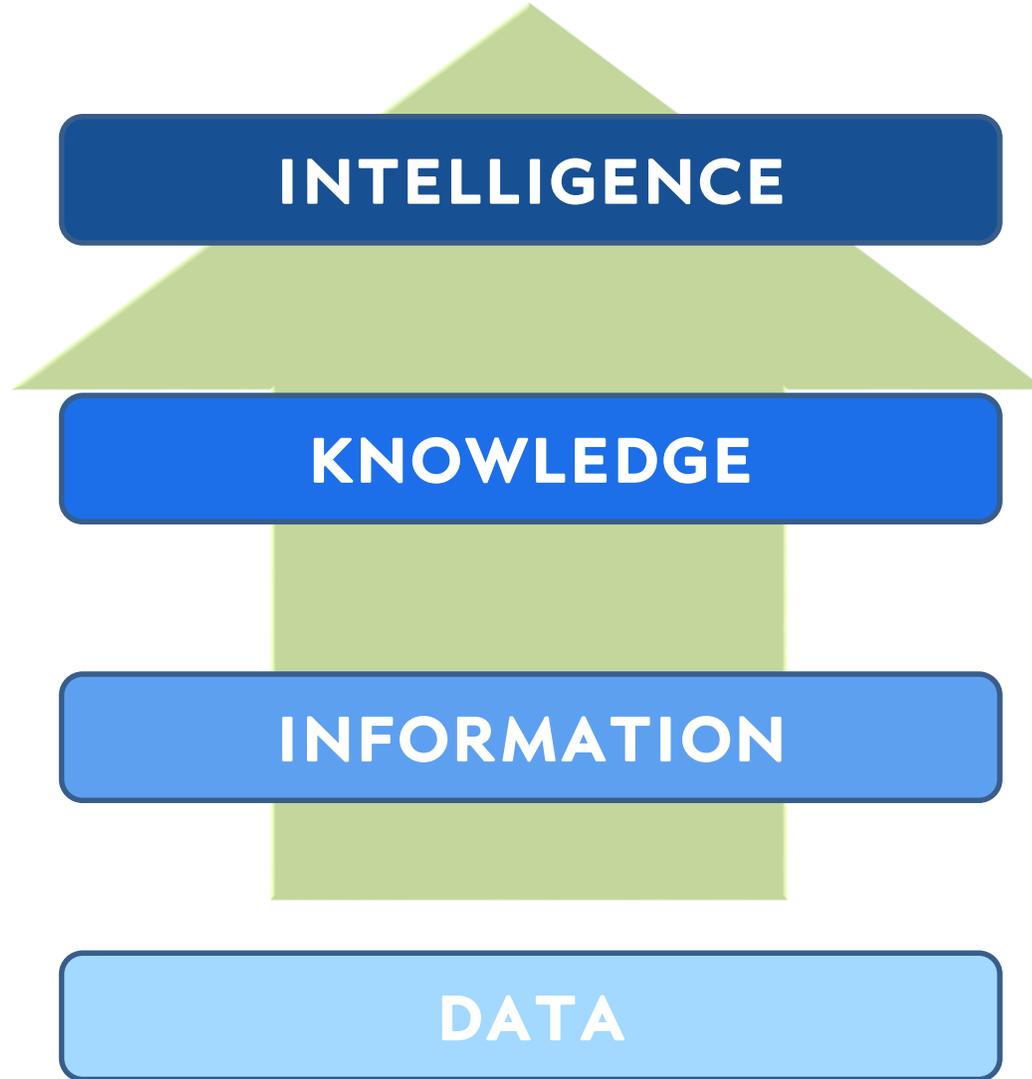
**KNOWLEDGE**

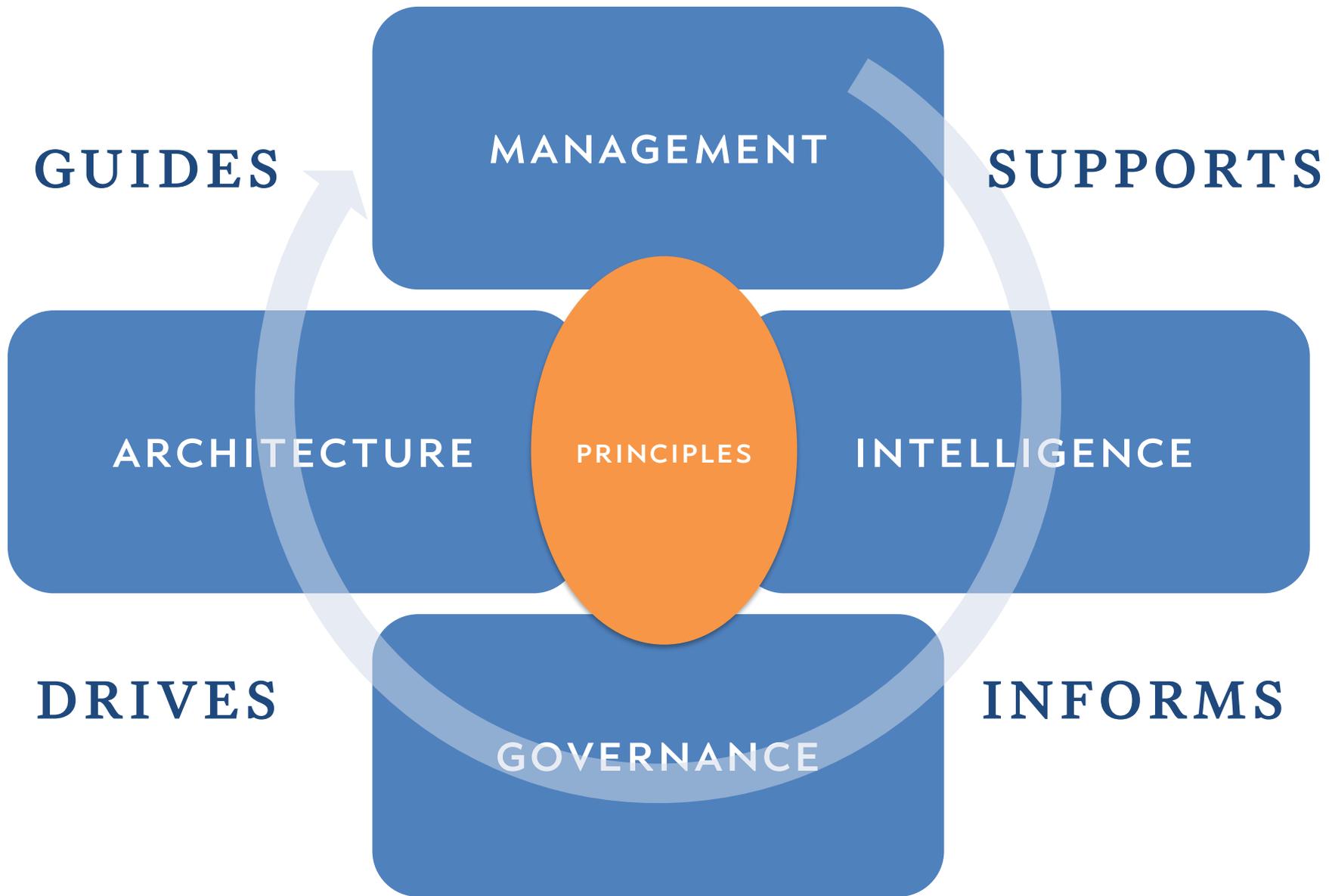
**INTERPRET**

**INFORMATION**

**COLLECT**

**DATA**





**GUIDES**

**MANAGEMENT**

**SUPPORTS**

**ARCHITECTURE**

**PRINCIPLES**

**INTELLIGENCE**

**DRIVES**

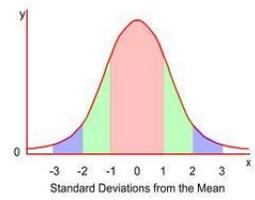
**GOVERNANCE**

**INFORMS**

# PRINCIPLES

- Used to support **MISSION** goals
- Interpreted, analyzed, and assimilated to support **ACTIONABLE** decisions
- Standardized to promote **INTEROPERABILITY** and integration
- Managed to maintain quality, **INTEGRITY**, and reliability
- Accessible with appropriate **SECURITY** controls
- Disseminated to promote **REUSE**

DATA  
INTEROPERABILITY  
SUPPORTING  
INTEGRATION  
AND TACTICAL USE



$$P = \frac{e^{a+bX}}{1 + e^{a+bX}}$$



RESEARCH  
UNIVERSITIES AND  
PRIVATE BUSINESSES  
CONDUCT ANALYTICS  
RESEARCH AND  
DEVELOP ALGORITHMS

*KNOWLEDGE GAPS  
IDENTIFIED AND  
MITIGATED  
SUPPORTING  
CONTINUOUS  
IMPROVEMENT*



AGENCY OPERATIONS



ALGORITHMS ARE  
'OPERATIONALIZED'  
AND EMBEDDED  
INTO  
COMMONWEALTH  
INTELLIGENCE  
PRODUCTS VIA TECH  
TRANSFER  
SUPPORTING  
STRATEGIC, TACTICAL,  
OPERATIONAL LEVELS

# BENEFITS

- IMPROVE **OPERATIONAL EFFICIENCY**
- MORE **CITIZEN-CENTERED SERVICES**
- BETTER **OUTCOMES FOR CONSTITUENTS**

# OPERATIONAL EFFICIENCY

- Verify newborn screenings against birth records (DGS CLS & VDH VR)
- Continuity of care through Medicaid enrollment (DOC, DMAS, DSS, DCJS)
- Improving cash forecasting (Treasury, VDOT, DOE, Tax, DMAS)
- Electronic Health Records (DOC, DCJS, DJJ, DBHDS, VDH)
- Automatic account creation VA-Common Access Portal (DSS, DARS, DBVI, VEC, VCCS, DOE)

# CITIZEN-CENTERED SERVICES

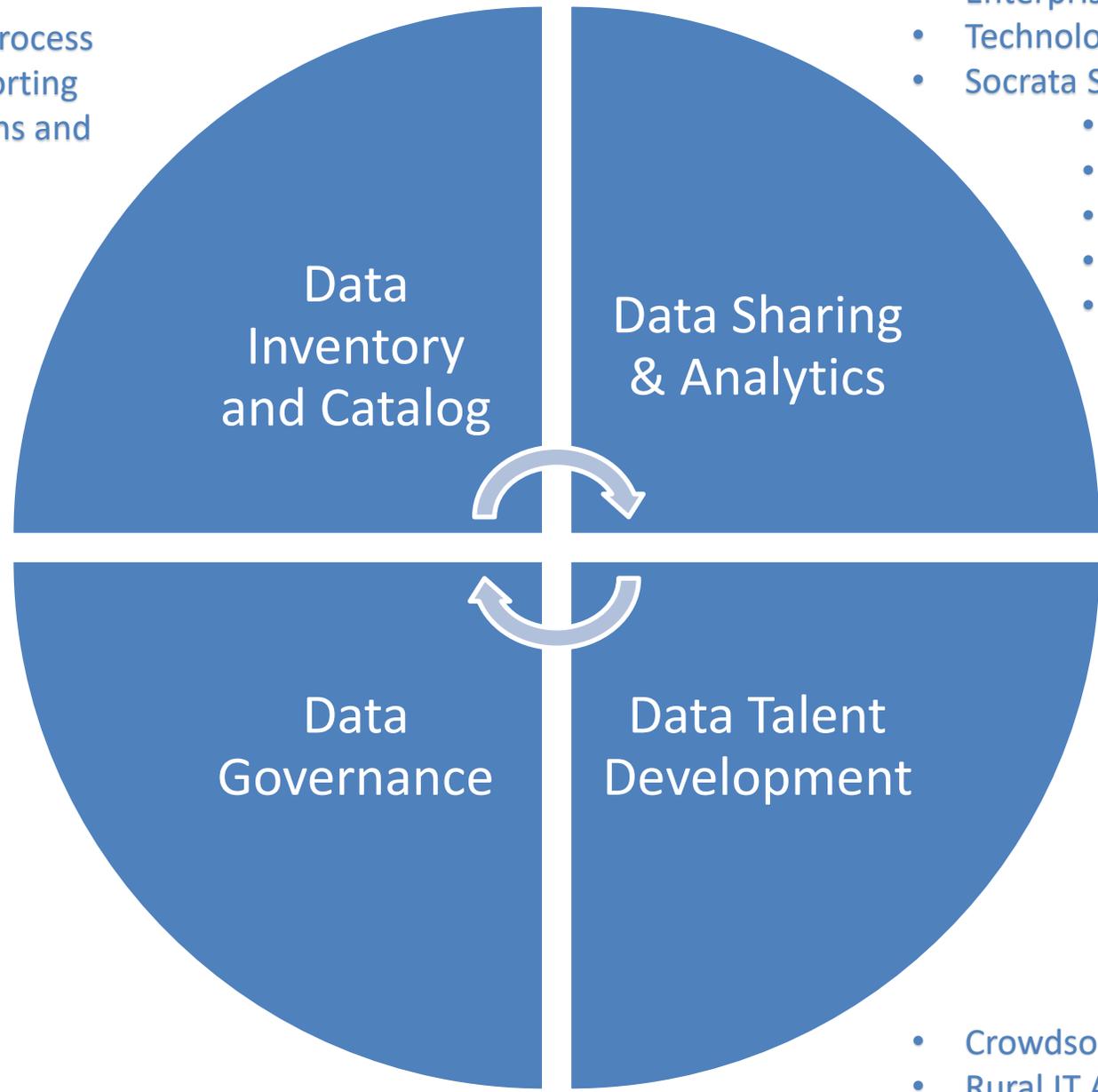
- One-stop workforce referral service (VA-Common Access Portal)
- One-stop change of address portal (DMV, VEC, VRS, DARS, Tax)
- Homelessness Coordinated Entry System (DHCD)
- Unified payment system
- Common licensing and permitting

# OUTCOMES FOR CONSTITUENTS

- Reduce opioid and substance use related overdose deaths
- Reduce homelessness (especially among vulnerable populations)
- Reduce unemployment and underemployment
- Reduce recidivism
- Increase school readiness
- Increase strategic planning capabilities among localities

- VDOT Innovation Catalog
- Azure Data Catalog
- Standard Data Documentation Process
- Machine Learning Models Supporting Business Glossary Tag Suggestions and Ontology Development
- Metadata Approval Process
- Metadata Publishing Process

- Opioid Data Sharing Expansion and Report
- Enterprise Data Sharing Agreement Process
- Technology-Agnostic Data Hub Governance
- Socrata Secure Connected Government Cloud
  - VDOT
  - DRPT
  - DMV
  - OIPI
  - VDH



Data  
Inventory  
and Catalog

Data Sharing  
& Analytics

Data  
Governance

Data Talent  
Development

- Data Board
- Data Governance Council
- Data Stewards Group
- Data Sharing and Analytics Advisory Committee Report

- Crowdsource Broadband Performance
- Rural IT Apprenticeship Program
- Commonwealth Data Internship Program

<https://administration.Virginia.gov/cdo>

A Commonwealth of Virginia Website

[Virginia.gov](#) | [Find an Agency](#)



Chief Data Officer *Carlos Rivero*

Search



[Data Governance](#) [Initiatives](#) [Advisory Committee](#) [Events](#)



## Carlos Rivero, Chief Data Officer

### Role of the Chief Data Officer

Generally speaking, the primary role of the Chief Data Officer (CDO) is to increase the value of the



# DATA GOVERNANCE SURVEY

- Develop a commonwealth-wide data governance policy
- Engage as many stakeholders as possible (agencies, cities, counties, universities, boards)
- In the process –
  - Identify how we are currently sharing data
  - Identify how we would like to share data in the future
  - Understand the relative risks and strategies to mitigate those risks
  - Determine where the commonwealth can invest to improve outcomes

<https://cit.smartcitiesactivator.com>

Welcome to the Commonwealth of Virginia's Data Governance Survey. You have received an email from the Commonwealth's Chief Data Office seeking your input.

This will be one of three (3) short surveys you are asked to complete.

If you have not registered yet, please register by clicking the register link to the bottom right.

If you have registered, please log-in and go to Activator Discover to access your survey.



If you were invited to participate please use the REGISTER link at the bottom of this box, or use your current login and password.

Remember me

SIGN IN

[Register](#) - [Forgot your password?](#) - [Resend Confirmation Email](#) -

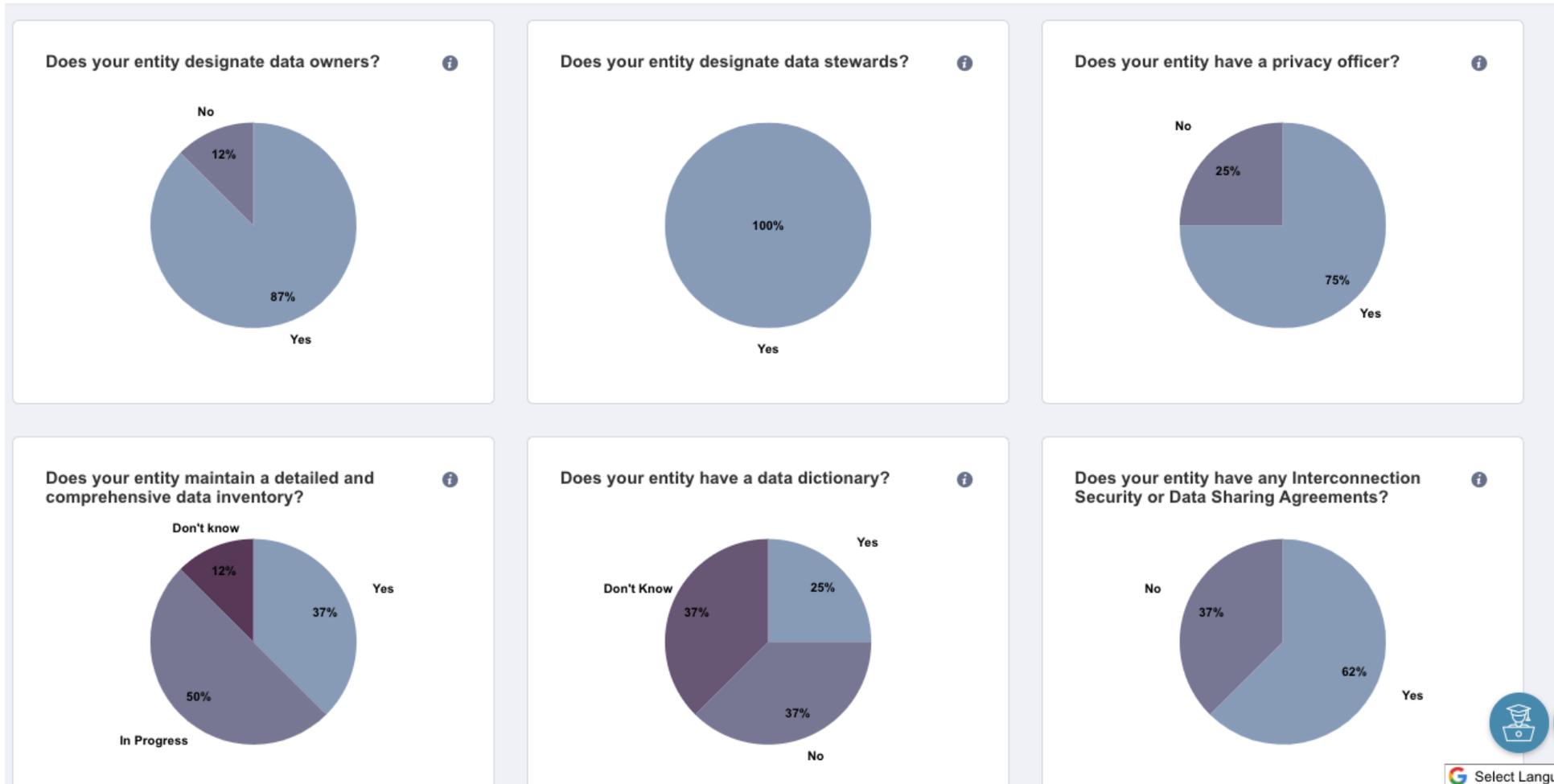
# HOW DATA WILL BE USED

- Identify data use cases
- Find common needs and priorities (e.g., opioids, public safety, education)
- Develop a set of policy and budget recommendations for both state and local level governments

# SURVEY TOPICS

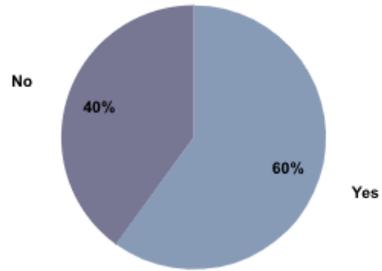
- Who is responsible for data governance
- What policies are in place (data governance, data sharing, privacy, etc...)
- What is the level of expertise (training and certifications)
- How is data being used
- How will data be used in the future

# AGENCY ACCOUNTABILITY

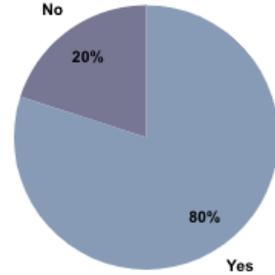


# CITY/COUNTY ACCOUNTABILITY

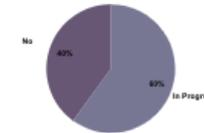
Does your entity designate data stewards?



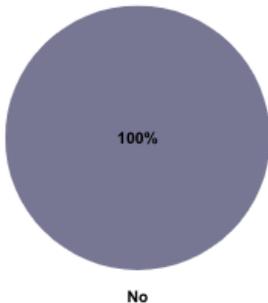
Does your entity have a privacy officer?



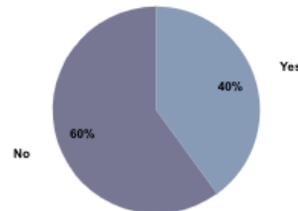
Does your entity maintain a detailed and comprehensive data inventory that makes its data more discoverable and accessible?



Does your entity have a data dictionary?



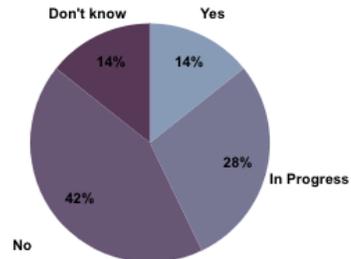
Does your entity have any Interconnection Security or Data Sharing Agreements?



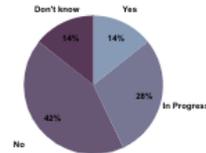
Select Language

# AGENCY SYSTEM WIDE POLICIES

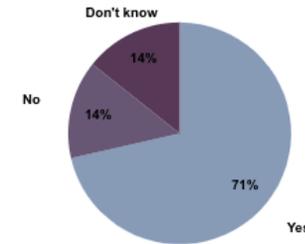
Does your entity have a written data governance policy?



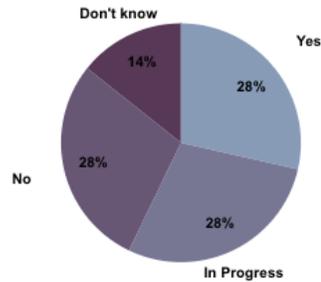
Does your entity have a written process documenting how to share data internally or with trusted partners?



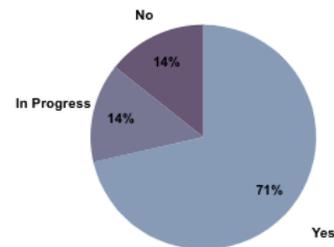
Does your entity have an information security risk management plan?



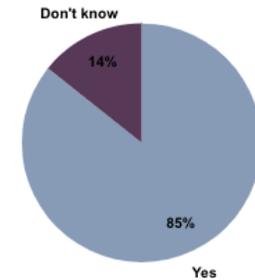
Does your entity have a privacy policy?



Does your entity have an Information Technology (IT) Strategic Plan?

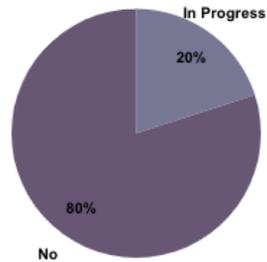


Does your entity document Information Security Standards?

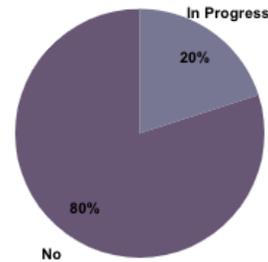


# CITY/COUNTY SYSTEM WIDE POLICIES

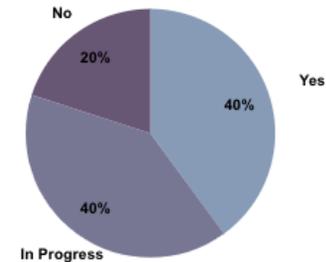
Does your entity have a written data governance policy?



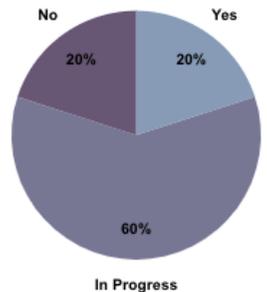
Does your entity have a written process documenting how to share data internally or with trusted partners?



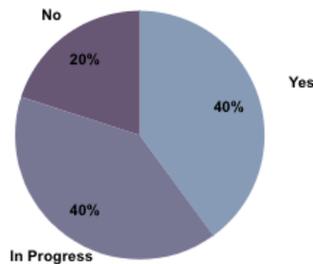
Does your entity have an information security risk management plan?



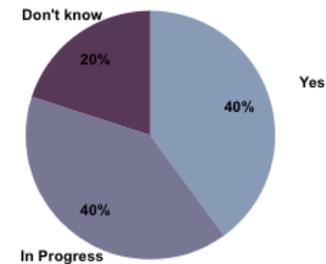
Does your entity have a privacy policy?



Does your entity have an Information Technology (IT) Strategic Plan?



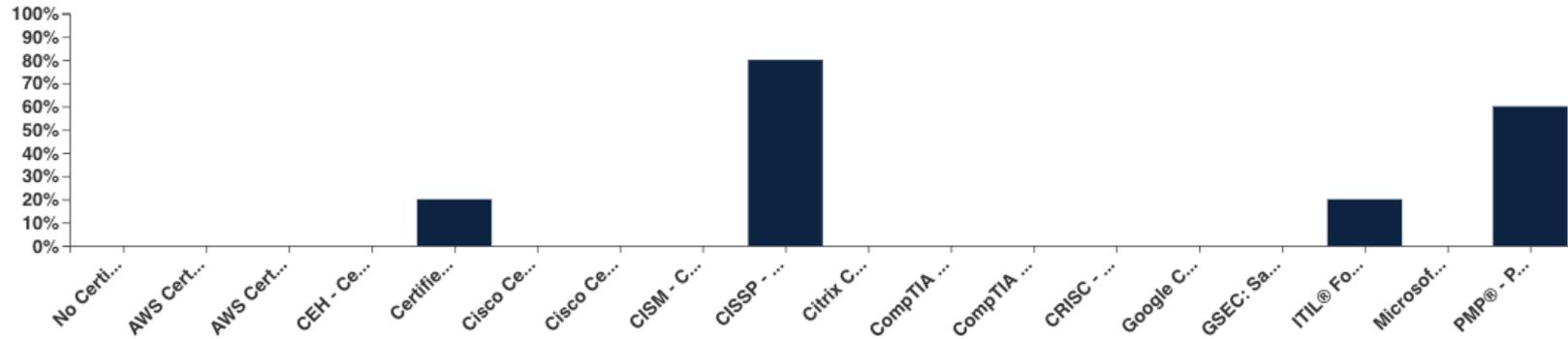
Does your entity document Information Security Standards?



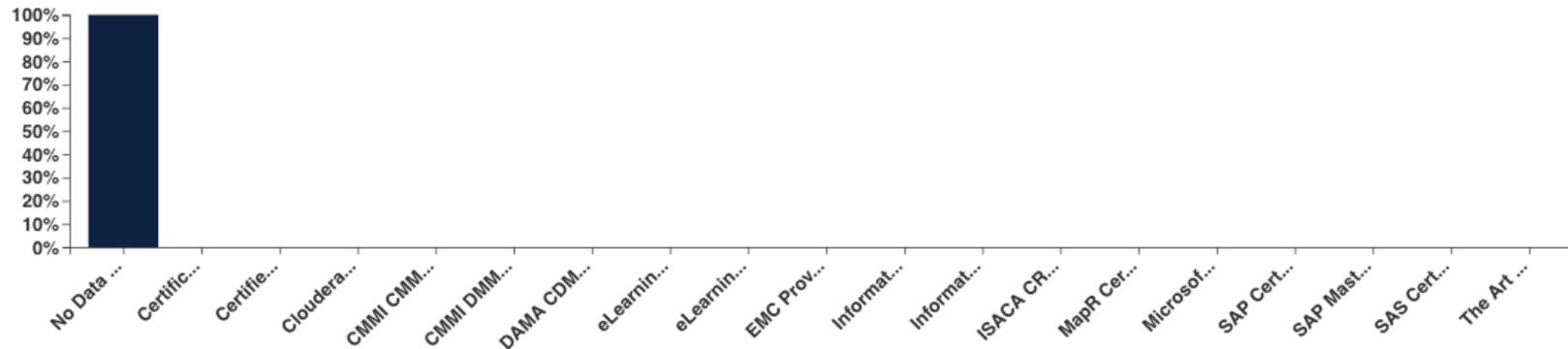
Select Language

# AGENCY CYBER & DATA CERTIFICATIONS

Does anyone on your staff have the following certifications?

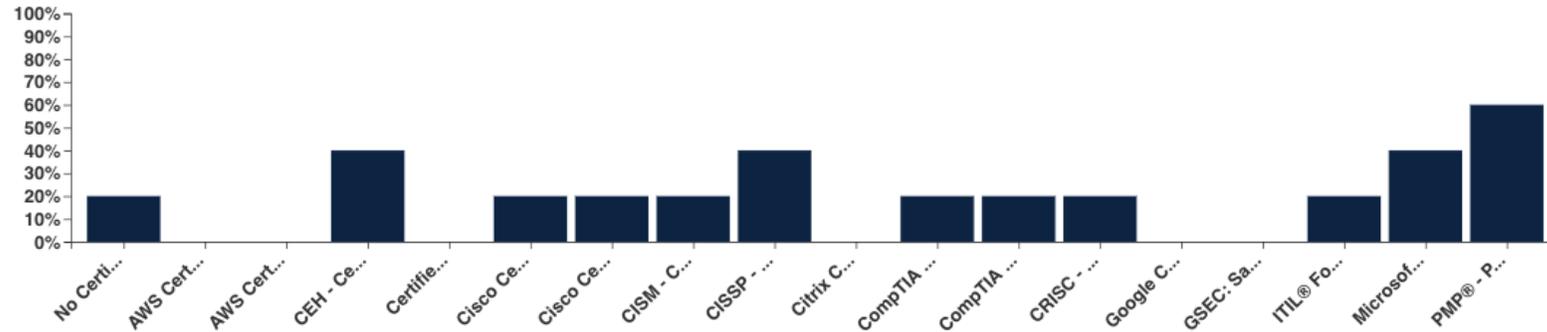


Does anyone on your staff have the following Data certifications?

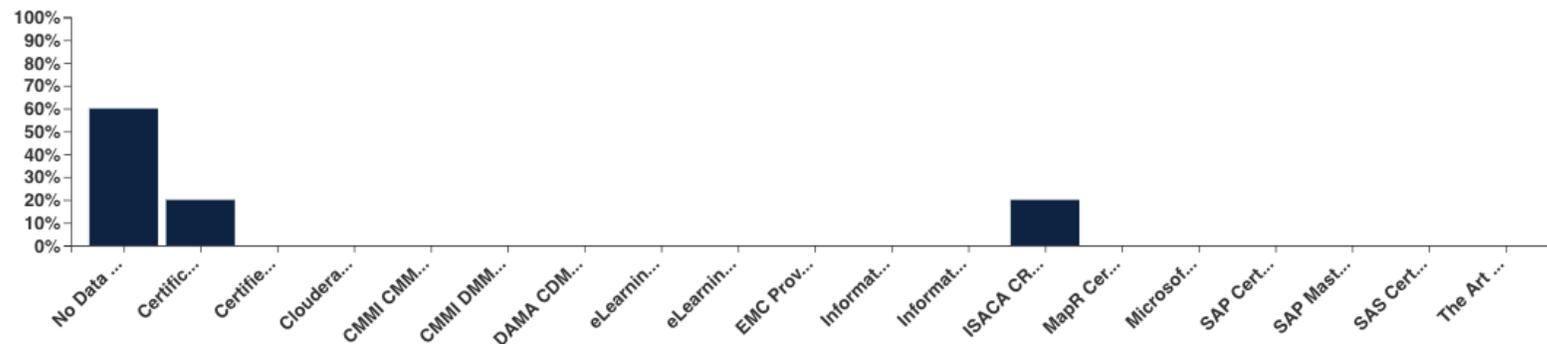


# CITY/COUNTY CYBER & DATA CERTIFICATIONS

Does anyone on your staff have the following certifications?



Does anyone on your staff have the following Data certifications?



# QUESTIONS ABOUT THE SURVEY?

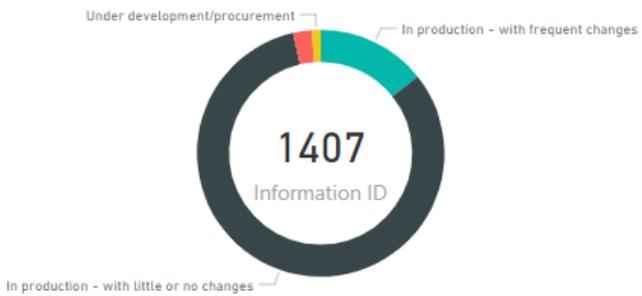
- Relevant information
  - Press release announcing survey - <http://bit.ly/32xVtKS>
  - Policy questions – [survey.support@governor.virginia.gov](mailto:survey.support@governor.virginia.gov)
  - Custom service questions - [customerservice@smartcitiesactivator.com](mailto:customerservice@smartcitiesactivator.com)

Survey response deadline changed – ***NOW October 30, 2019***

Agency

# Virginia Data System Dashboard

## System Status



304

Data Steward

784

Null Data Steward

55M

Users

318

Business Owner

855

Null Business Owner

152bn

Records Processed

198

Database Administrator

791

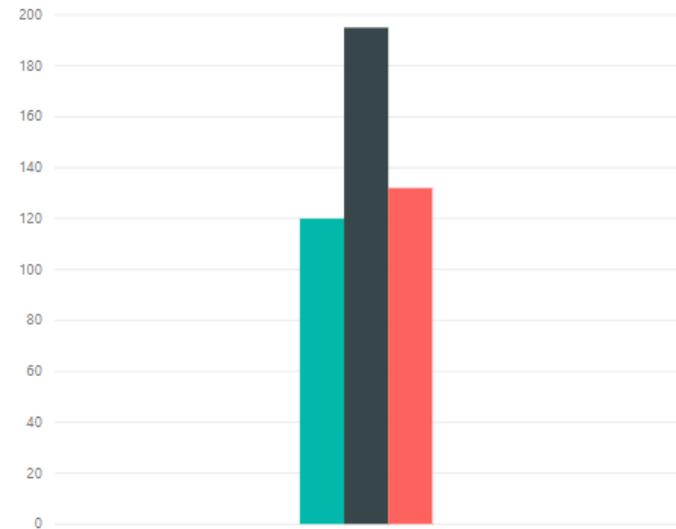
Null Database Administr...

174bn

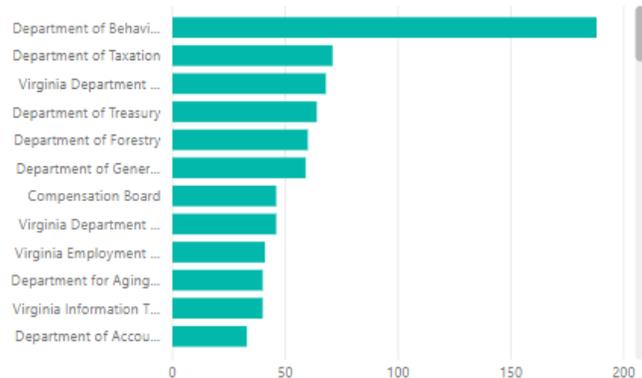
Records Stored

## Data Shared With Federal, State and Private

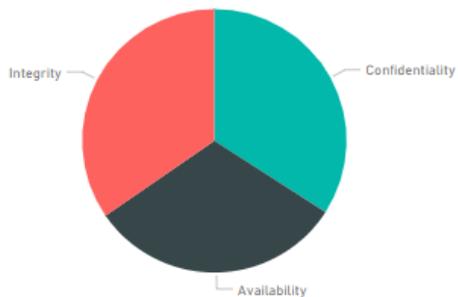
Federal State Private



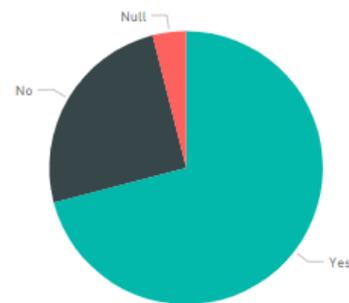
## Datasets by Agency



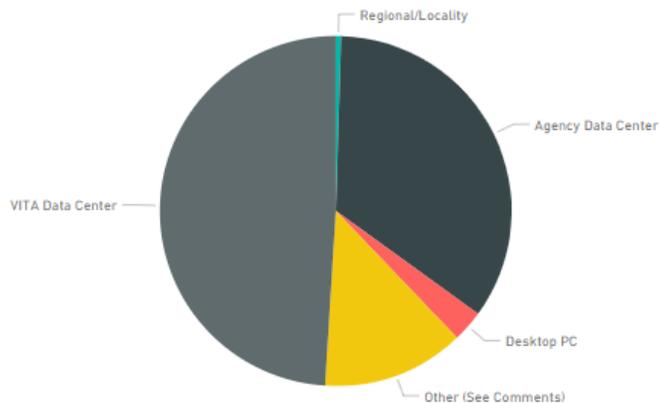
## Confidentiality, Availability and Integrity



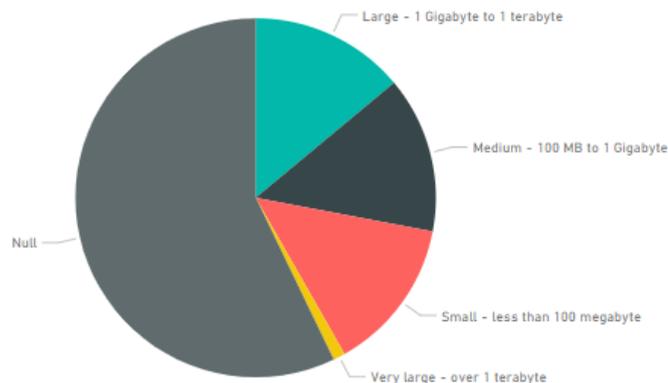
## Authoritative



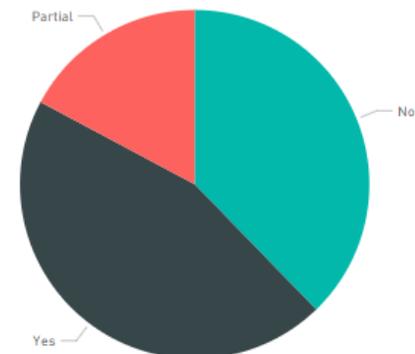
## Data Systems by Location

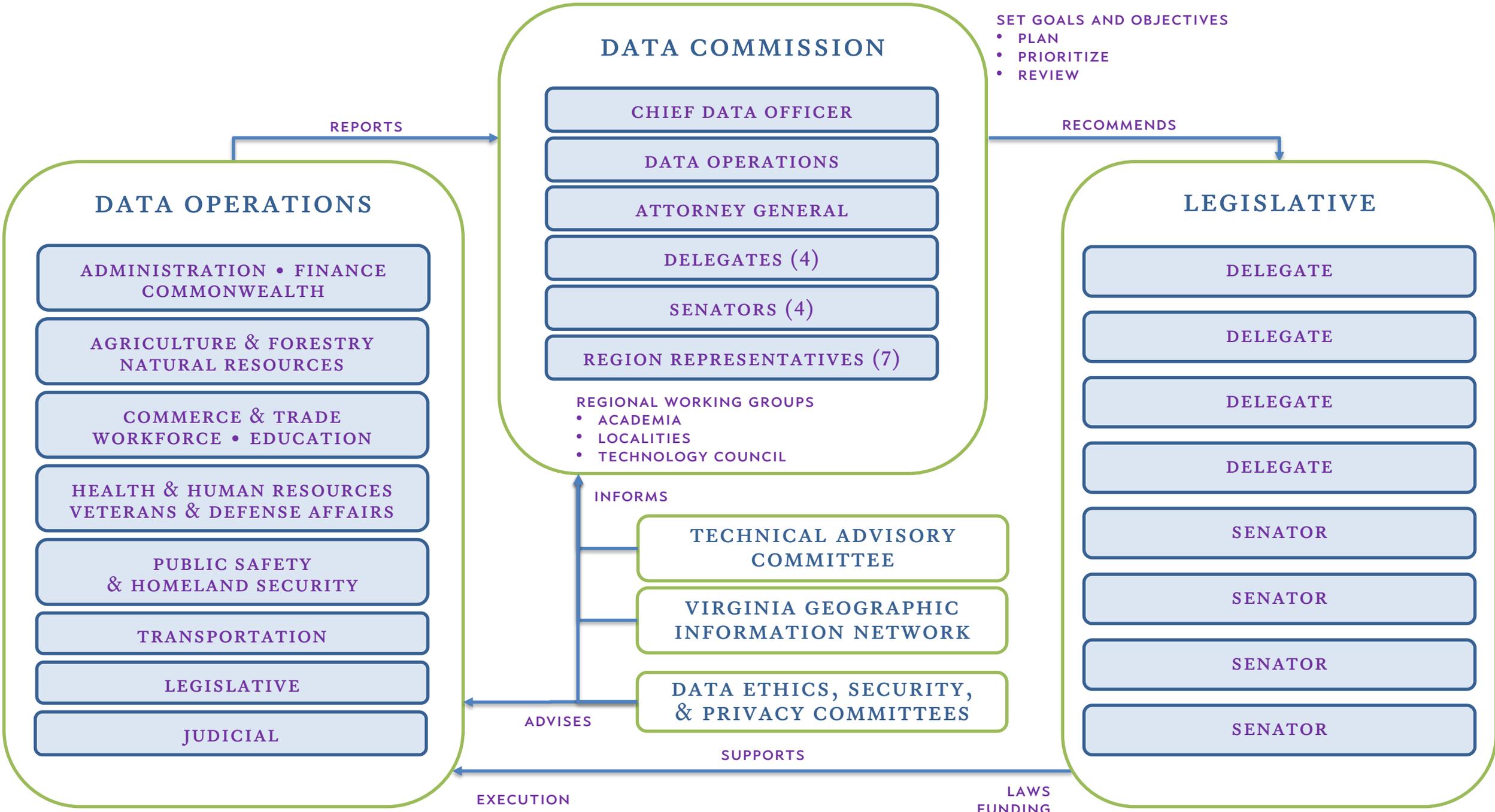


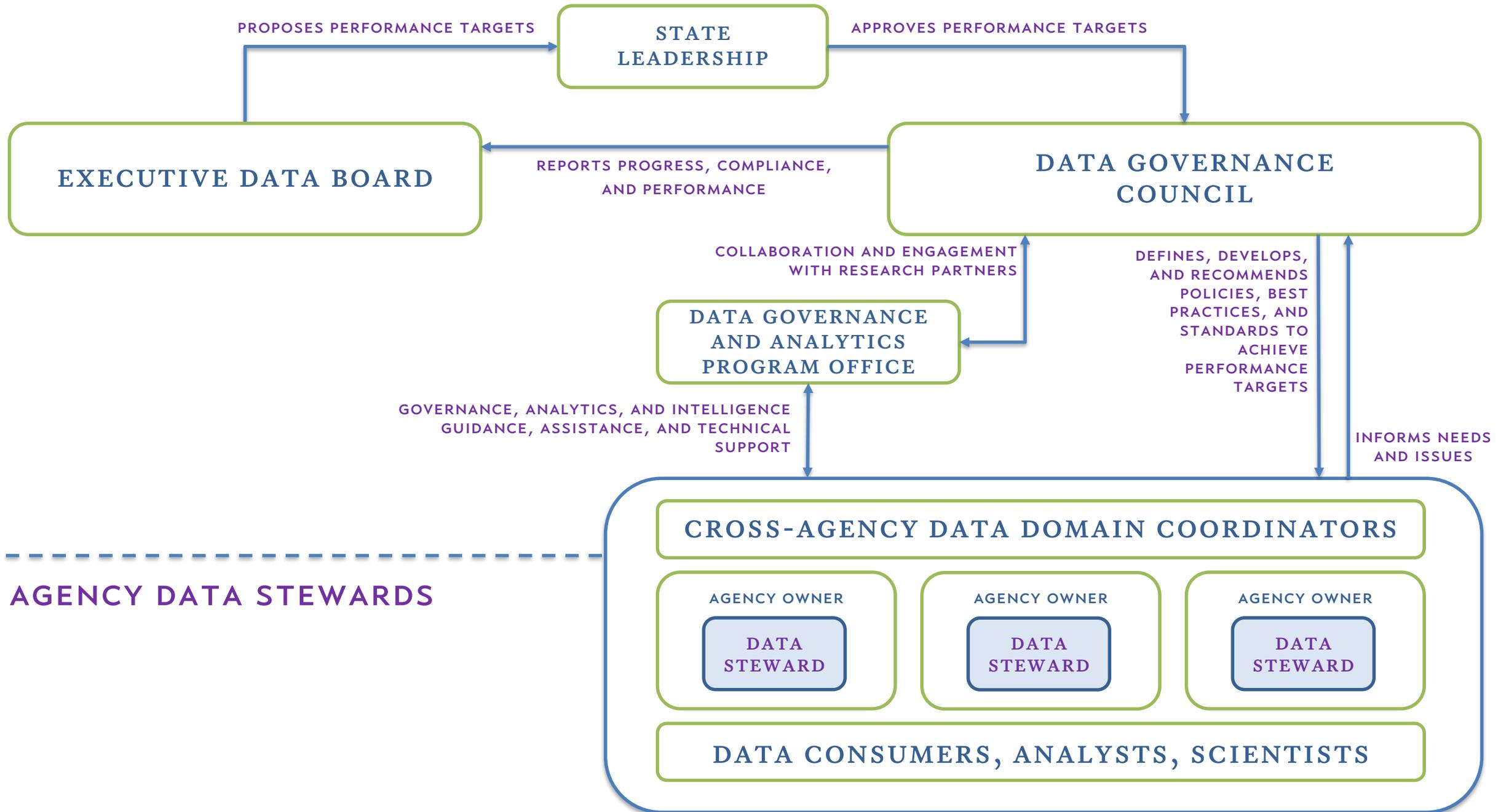
## Data Systems by Size



## FOIA



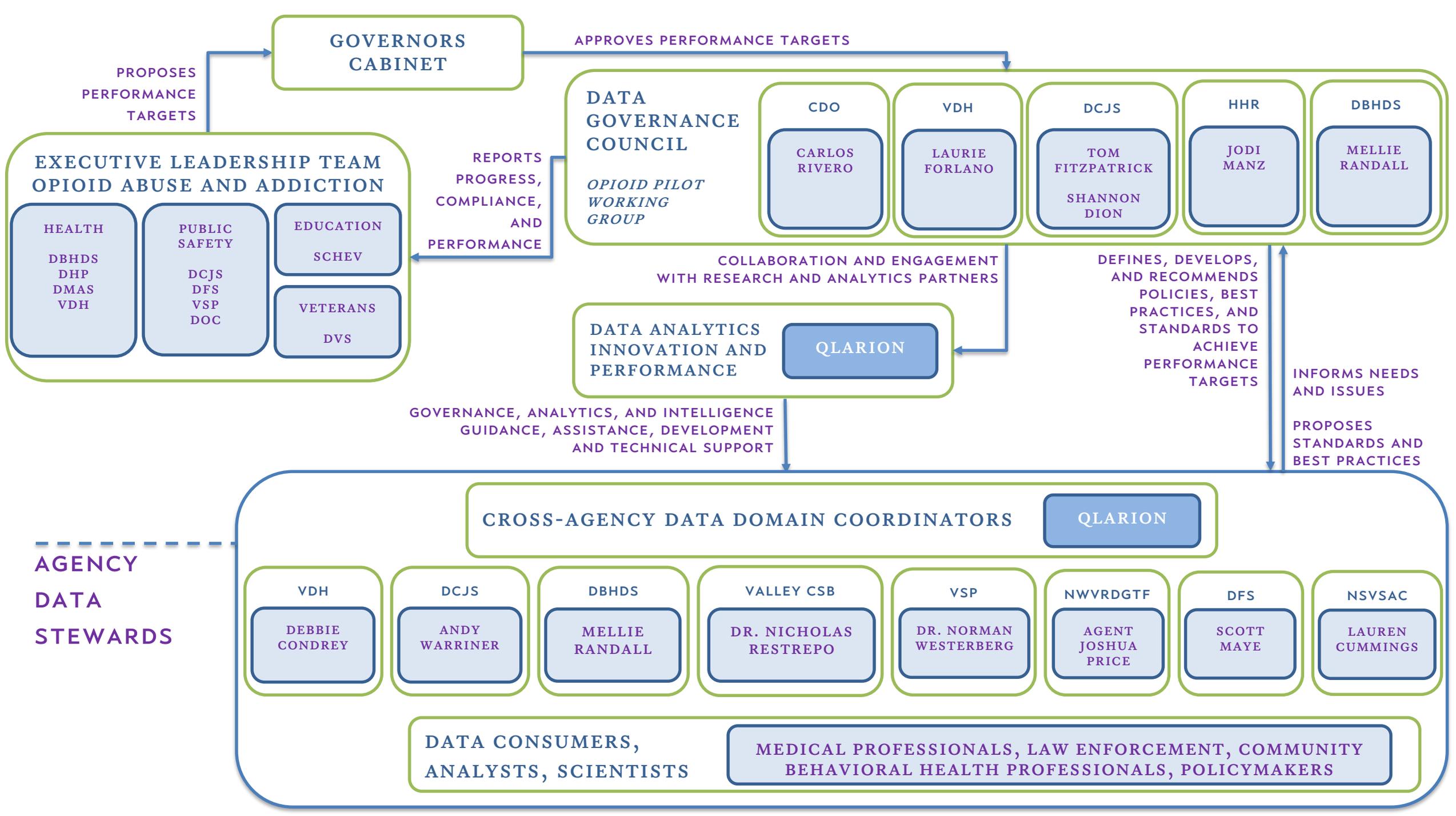






# ROLES AND RESPONSIBILITIES

EXECUTIVE LEVEL	<ul style="list-style-type: none"><li>• Executive Steering Committee</li></ul>
STRATEGIC LEVEL	<ul style="list-style-type: none"><li>• Data Governance Council</li></ul>
TACTICAL LEVEL	<ul style="list-style-type: none"><li>• Agency Data Officers</li><li>• Data Management Technical Team</li><li>• Data Domain Managers/Experts</li><li>• Business/Program Management</li><li>• Geospatial Information Officers</li><li>• Information System Security Officers</li><li>• Information System Security Managers</li></ul>
OPERATIONAL LEVEL	<ul style="list-style-type: none"><li>• Data Stewards</li><li>• Data Scientists, Architects, Engineers, Analysts, and Consumers</li></ul>



# DATA TRUST

Safe, secure, and legally compliant information sharing environment

- Establish consistent requirements for trust members through a standardized data sharing agreement process
- Provide a scalable alternative to multiple “point-to-point” sharing
- Promote trust among trust members through common rules for data security, privacy, and confidentiality
- Reduce technical costs by onboarding to a single environment using standard NIEM protocols

# Reporting, Analytics, and Intelligence Services



Law Enforcement



Medical Professional



Policy Maker



Innovative Research



Social Worker



Academia Higher Ed



Government Agency



Google Analytics



python



tableau



databricks



Power BI



Qlik



Google Big Query



MicroStrategy



SQL

Curated Data Catalog

Enterprise Identity & Access Management

Enterprise Semantic Data Layer



Socrata



amazon web services



Google Cloud



Microsoft Azure

VDH

DMV

DSS

DOE

DVS

VSP

Publish

Register



Data Asset Registration

Metadata Documentation

Business Glossary

ML Tag Suggestions

Metadata Approval

Publish to Curated Catalog

Metadata Ontology

Data Governance

Microsoft Azure Data Catalog

Select a Data Source:

 SQL Server	 SQL Data Warehouse	 Analysis Services	 Reporting Services	 Oracle Database	 Azure Blob	 Azure Table	 HDFS	 Hive
 Teradata	 Azure Data Lake Store	 MySQL Database	 HANA Database	 SQL Server Master Data Services	 Azure DocumentDB	 DB2 Database	 Salesforce	 Ftp
 PostgreSQL Database	 Odbc Database	 Sybase Database	 Cassandra	 MongoDb	 Azure Data Lake Analytics	 SAP BW		

Research Purpose: CDO Demo

Tasks

Account

Research

Team

Data

Documents

Notifications

Contacts



Step 1: Account



Step 2: Team Members



Step 3: Research Purpose



Step 4: Research Purpose Submission



Step 5: RUDA



Step 6: RUDA Management



Step 7: Data Requests



Step 8: Data Packages



Step 9: Data Package Approval



Step 10: Data Results



Step 11: Research Documents



Step 12: Finish

# DATA CULTURE

- Establish **AWARENESS**
- Facilitate **ENGAGEMENT**
- Provide **INSPIRATION**
- Promote **EMPOWERMENT**

# STUDENT ENGAGEMENT

- Rural **APPRENTICESHIP** Program
  - Data Documentation and Visualization
  - Data Quality Assessments
- Commonwealth Data **INTERNSHIP** Program
  - Exploratory Data Analysis
  - Data Modeling
- Commonwealth Analytics **FELLOWSHIP**
  - Data Analytics
  - Predictive Modeling
  - Machine Learning

# DATA SCIENCE BRAIN TRUST

- Students work on increasingly complex data projects as they mature academically
- University faculty collaborate with agency subject matter experts on research proposals to support students and develop algorithms
- Innovative businesses “operationalize” algorithms developed by research universities through integration with the stakeholder’s intelligence framework supporting **ACTIONABLE DECISIONS**

# FRAMEWORK FOR ADDICTION ANALYSIS AND COMMUNITY TRANSFORMATION

- FAACT is a data sharing and analytics platform to address the opioid and addiction crisis
- Originally created through a partnership between the Winchester community, the Commonwealth, and Qlarion
- Brings together data across many relevant disciplines
- Provides insight and access not possible before
- Piloted in NW Virginia in late 2018 currently expanding into the Roanoke Valley region with additional regions and data sets planned

# FAACT DATA SETS

During the pilot phase (August 2018 – April 2019), the data sets included:

- PRE-TRIAL
- COMMUNITY CORRECTIONS
- POLICE INCIDENTS
- REGIONAL OVERDOSES
- LAB ANALYSIS RESULTS
- HOSPITAL ADMISSIONS AND PATIENTS
- SOCIAL SERVICES
- UNEMPLOYMENT
- POVERTY
- EDUCATION

# FAACT DATA SOURCES

The organizations that have contributed data so far included Federal, State, Local and Private organizations:

- DCJS
- LOCAL CORRECTIONS
- VA STATE POLICE
- COMMUNITY SERVICE BOARD
- VA DEPT OF FORENSIC SCIENCES
- WINCHESTER POLICE DEPARTMENT
- PRIVATE HEALTHCARE SYSTEM
- US CENSUS AND BUREAU OF LABOR

# FAACT PROPOSED STATEWIDE AND NATIONAL DATA SETS

- EMERGENCY MEDICAL SERVICES
- EMERGENCY DEPARTMENT
- PRESCRIPTION MONITORING PROGRAM
- PROBATION DETAIL
- DRUG COURT
- NEONATAL SCREENING
- EDUCATION DETAIL
- ALL CRIME INCIDENTS
- OD MAP
- ARCOS

# FAACT DATA USES

The data is accessible in two ways within the platform

- Data Sharing
  - Used by authorized users to conduct their own analysis
  - Every data element is accessible via API or export
- Analytics
  - Curated analytics designed for ease of use and self service
  - Answers questions such as:
    - How do user profiles differ by substance?
    - What is the level of harm associated with a specific user/substance profile?
    - What are the geographic patterns associated with user activity?
    - What crimes are correlated with the use of particular substances?
  - Advanced analysis helps to identify the micro-segmented populations that are at risk of a substance abuse disorder

# FAACT BENEFITS IN WINCHESTER, VA

- Becoming more proactive through the timely use of data (e.g., emerging drug threats)
- Understanding “Age of First Use” to drive attention to appropriate youth engagement through an evidence-based curriculum and provide parents, guardians, and caregivers with tools to identify and address substance use early on (e.g., Give Me a Reason Program)
- Adjusting and co-locating staff at strategic locations to better align with community needs (e.g., coalition peers in medical facilities, community centers, and academic institutions)
- Improved understanding of relationships between disparate data sets (e.g., crimes associated with attributable to addiction, time from first use to first arrest)
- Identifying demographic differences between user populations to better engage, treat, and support (e.g., opioid versus stimulant dependency)
- Using the platform to attract and acquire additional funding through data-driven actions and evidence-based policymaking (e.g., \$1M in grants for the Winchester Coalition)

# ISSUES ENCOUNTERED

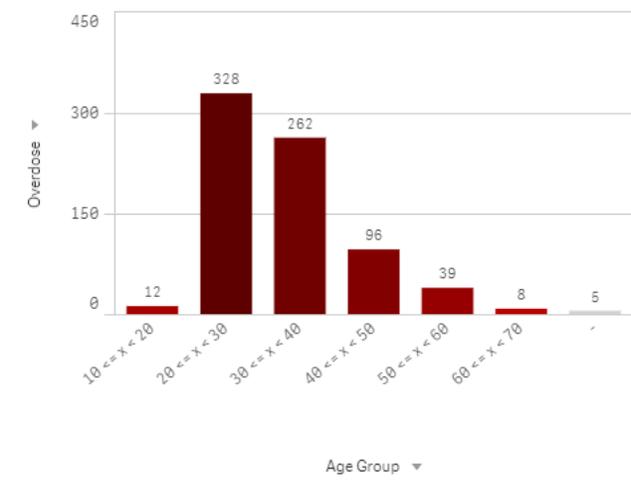
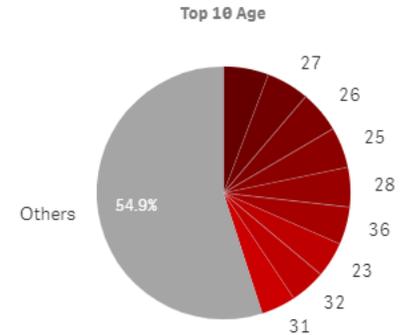
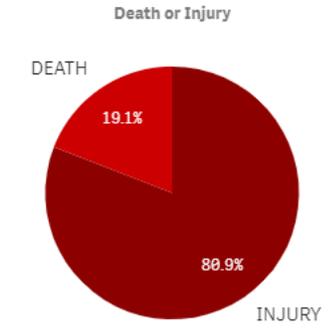
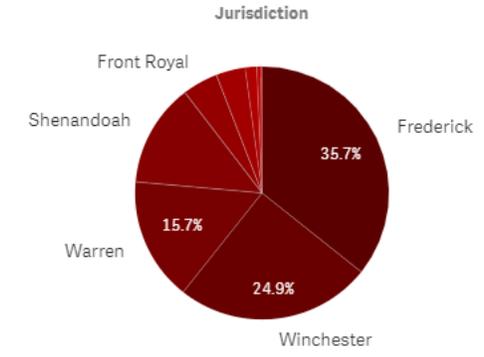
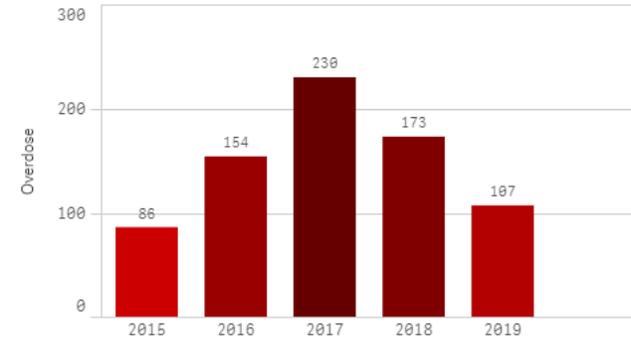
- Sharing data is a vague and ill-defined process which takes a lot of time and effort to be successful (even for non-sensitive data)
- Due to organizational reluctance with data sharing, project was initially limited to non-sensitive data
- Source data was poorly documented across most systems (e.g., lack of data dictionaries)
- Needed to conform data to a common standard (e.g., NIEM) to link across systems
- Lack of procurement processes and IT services required innovative approaches and solutions

# FAACT – WHAT’S NEXT?

- Add more regional, statewide, and national data sets
- Implement a robust governance model through the development of a data trust and establishing a Data Governance Council
- Make the analytics platform available to users across the commonwealth to widen the impact
- Better integrate data sets at the person level by incorporating sensitive de-identified data
- Augment the analytical capabilities of the platform by adding new data, methods, and models
- Increase community adoption and engagement to save lives

# REGIONAL OVERDOSE ANALYSIS

## Task Force Overdose Tracking Analysis



### Overdose Tracking

Jurisdiction	Sex Category	Age	Death or Injury	Date	Overdose	Multiple Overdose	Fentanyl Detected
<b>Totals</b>					<b>750</b>	<b>60</b>	<b>71</b>
Shenandoah	MALE	24	INJURY	8/21/2019	1	0	0
Front Royal	MALE	61	DEATH	8/16/2019	1	0	0
Frederick	MALE	41	INJURY	8/15/2019	1	0	0
Shenandoah	MALE	35	INJURY	8/12/2019	1	0	0
Winchester	MALE	26	INJURY	8/10/2019	1	0	0
Shenandoah	MALE	22	INJURY	7/31/2019	1	0	0
Front Royal	FEMALE	44	INJURY	7/31/2019	1	0	0
Shenandoah	FEMALE	36	INJURY	7/30/2019	1	0	0
Front Royal	MALE	49	DEATH	7/29/2019	1	0	1
Front Royal	FEMALE	36	DEATH	7/27/2019	1	0	0
Frederick	FEMALE	24	INJURY	7/27/2019	1	0	0



# STREET LEVEL VIOLENT CRIME ANALYSIS

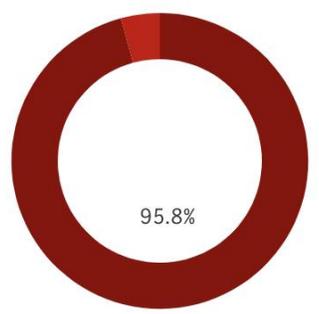


## Crime Analysis (Winchester)

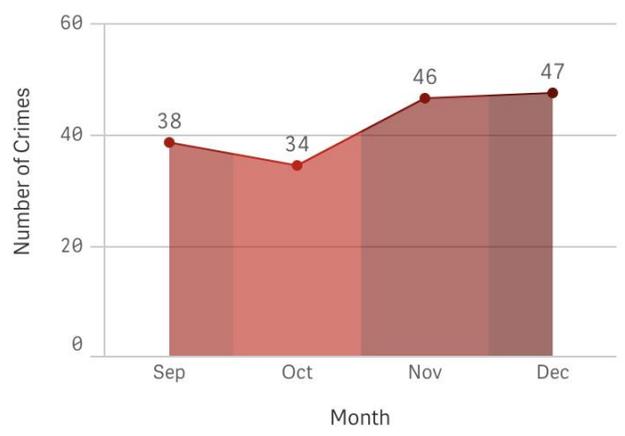
Year:  Month:

Top Crime Type:  
**Assault**

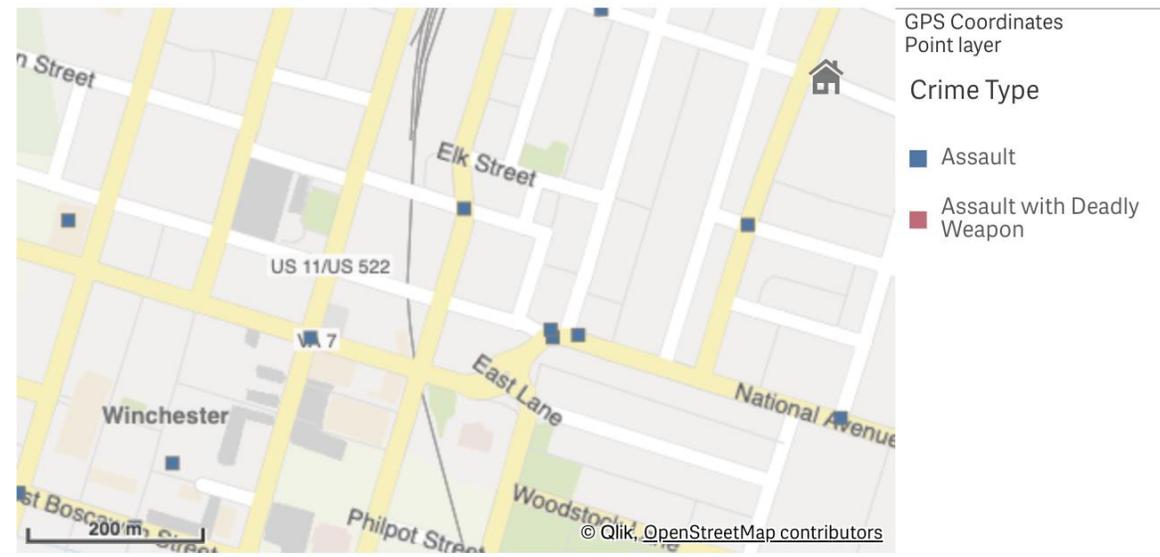
Distribution of Parent Crimes



Temporal Trends in Crime



Crime Map



Arrest Crime Winchester



ZipCode, Location Type, Address

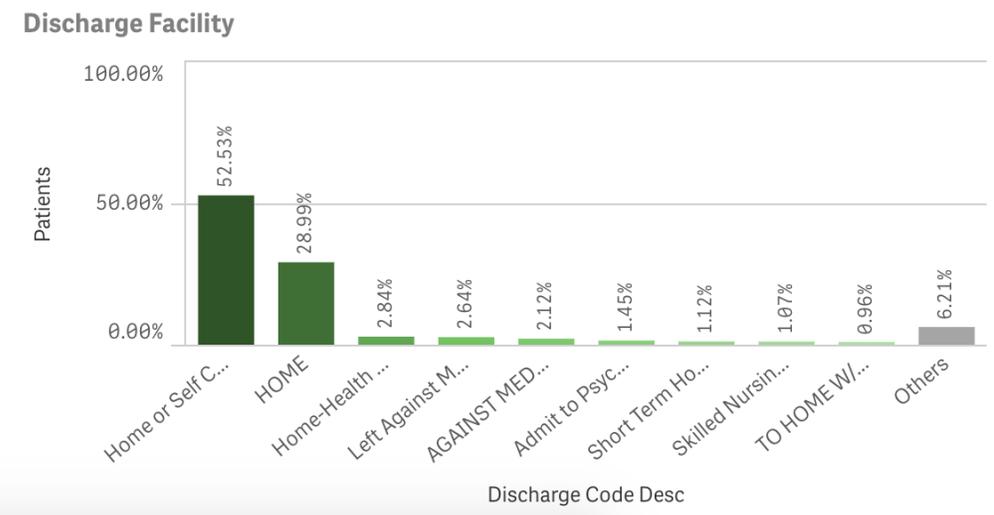
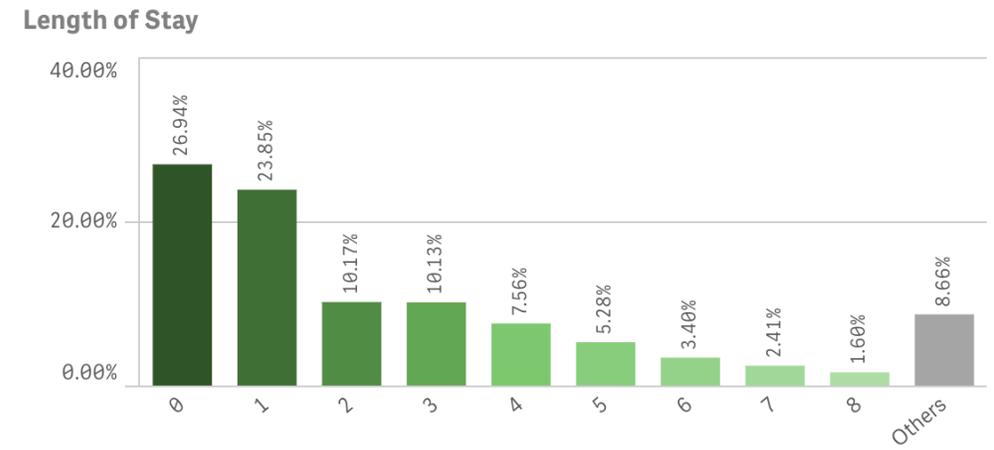
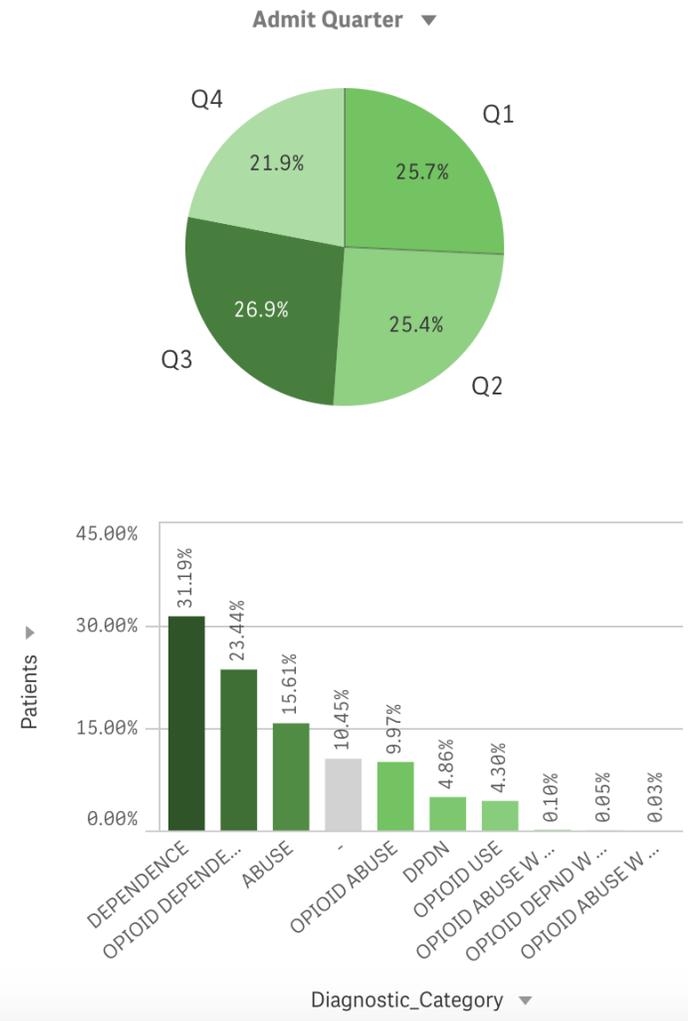
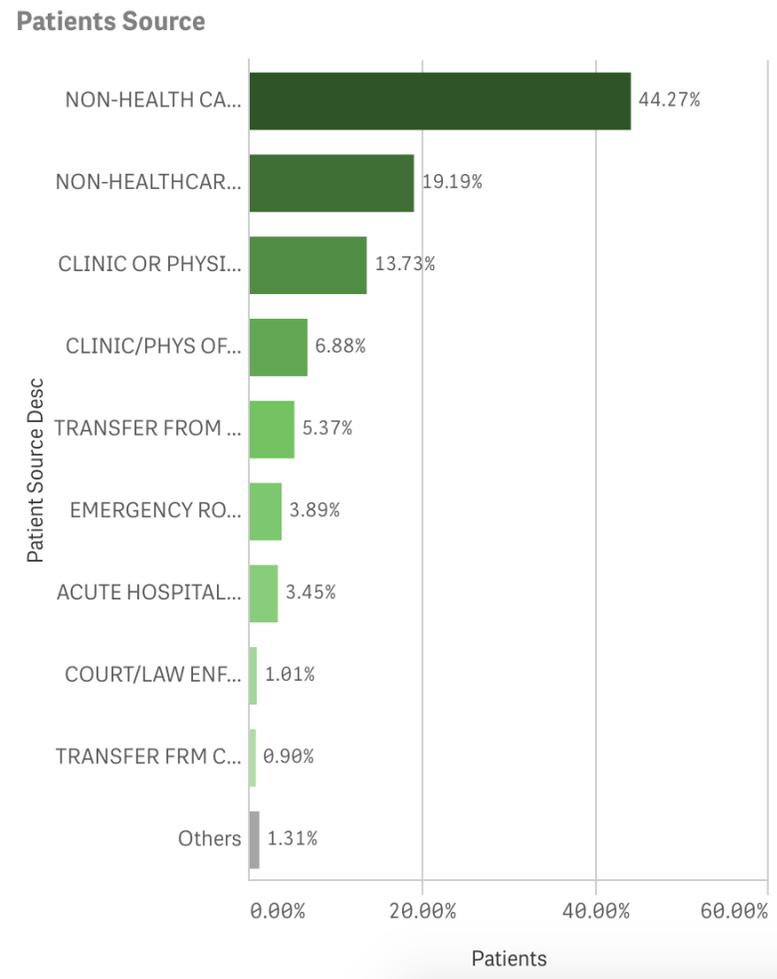


# VALLEY HEALTH PATIENT ANALYSIS



## Patient Analysis

Opioid



# VIRGINIA CAREERWORKS REFERRAL PORTAL

**VIRGINIA CAREERWORKS**

Workforce Centers

Sign In **CREATE MY ACCOUNT**

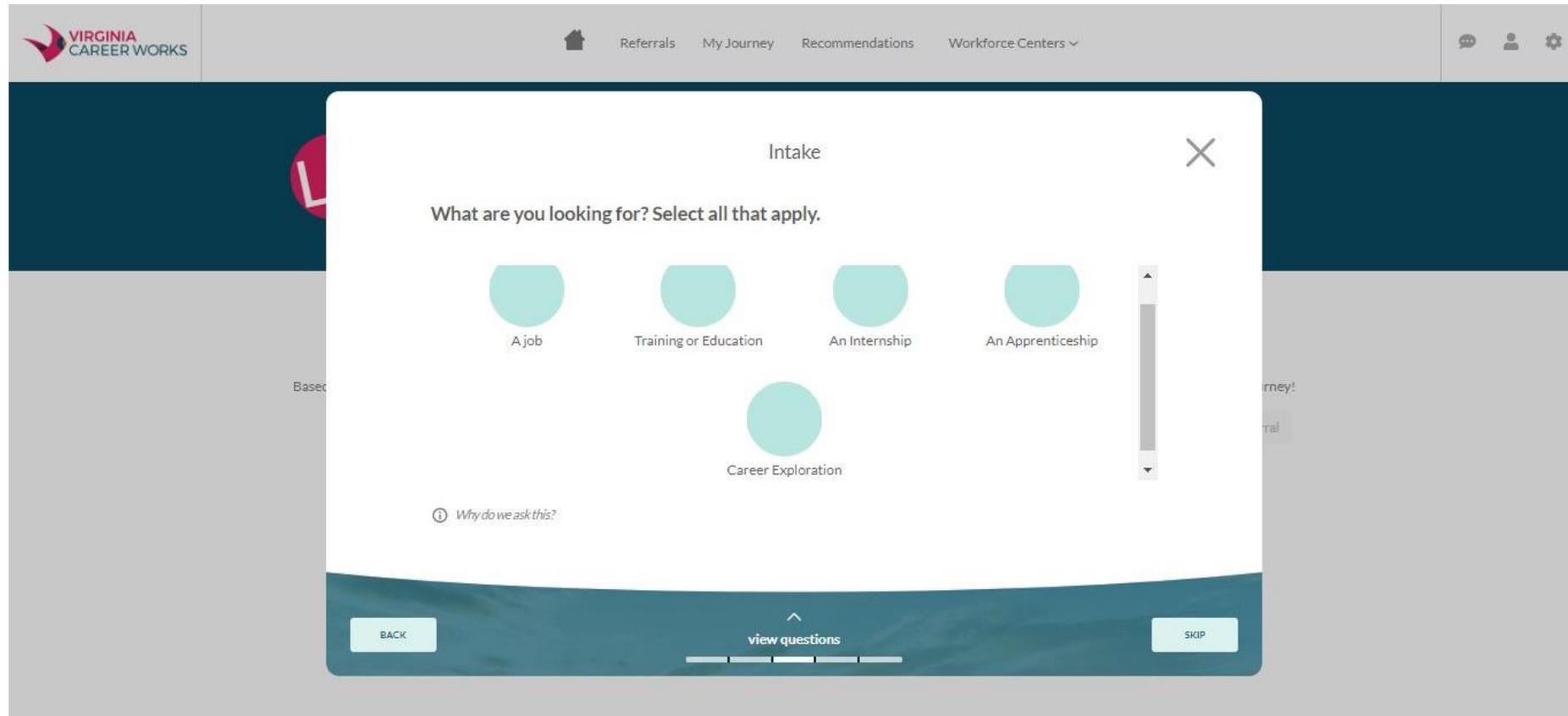
## Plan Tomorrow's Journey Today

The Virginia Common Access Portal (VaCAP) is a groundbreaking statewide platform that refers individuals to programs to assist them in advancing their career paths and financial independence through training, certification, education and employment services.

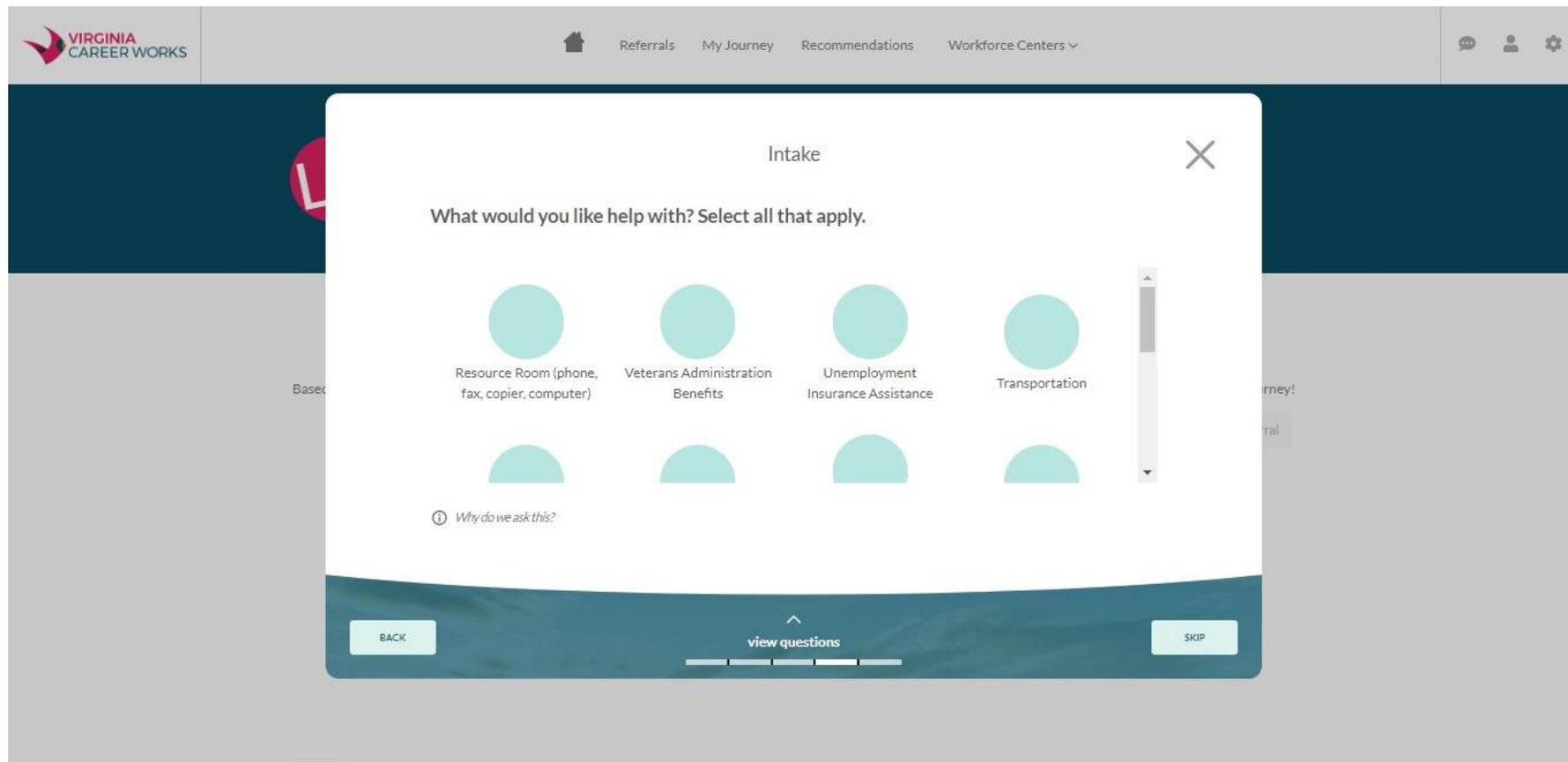
**CREATE MY ACCOUNT**

Full-screen Snip

# VIRGINIA CAREERWORKS REFERRAL PORTAL



# VIRGINIA CAREERWORKS REFERRAL PORTAL



# DATA TRUST



Trade Act Programs  
Veterans Programs  
Labor Exchange Services  
Targeted Labor Market Information



Office of Career, Technical and Adult Education  
Microsoft IT Academy  
Path to Industry Certification  
Workplace Readiness Skills Assessment  
High School Equivalency and Adult High School Diplomas  
Adult High School English as a Second Language (ESL)  
PluggedIn VA



Senior Community Service Employment Program  
Vocational Rehabilitation Program  
Wilson Workforce and Rehabilitation Center



Virginia Rehabilitation Center for the Blind and Vision Impaired  
Vocational Rehabilitation Program  
Technical Assistance for Business  
Business Enterprise Program  
Virginia Industries for the Blind



Customized Workforce Training  
Virginia Jobs Investment Program  
Higher Education Business Resources



Industry Certifications and Professional Licensures Courses  
Customized Training for Businesses and Individuals  
Career Coaching  
WIA Adult, Youth and Dislocated Worker/Rapid Response  
Post-secondary Career & Technical Education (CTE)



VIRGINIA DEPARTMENT OF SOCIAL SERVICES

Virginia Initiative for Employment Not Welfare – Employment Advancement for TANF Participants  
SNAP Employment and Training  
Virginia Refugee Resettlement Program



Registered Apprenticeship



State Approving Agency for Veterans Education and Training  
Virginia Military Survivors and Dependents Education  
Virginia Values Veterans  
Virginia Transition Assistance  
Military Medics and Corpsmen

# PERFORMANCE DASHBOARDS

- EXECUTIVES
- SERVICE MANAGERS
- SYSTEM ADMINISTRATORS
- VIRGINIA WORKFORCE REPORTS

# EXECUTIVE DASHBOARD

Executive Overview | Executive People Analysis | Executive Places Analysis | Executive Service Analysis | Reporting



Executive Overview

Clients Referred  
**98**  
# of Referrals: 327

Unemployment Rate  
**3.39%**

Type Name

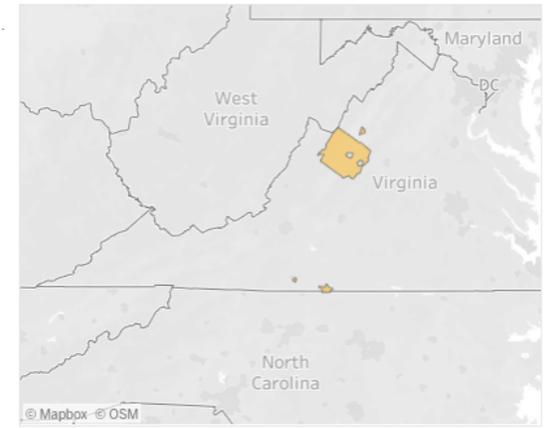
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Executive Overview
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Executive People Analysis
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Executive Places Analysis
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Executive Service Analysis
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reporting

Number of Referrals by User's Home State

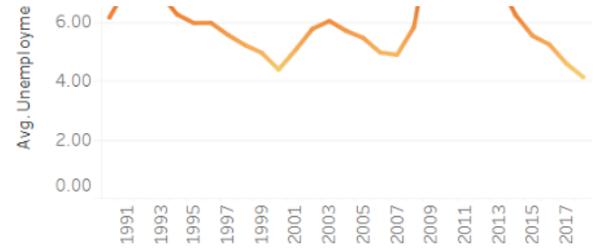


- (All)
- Other
- VA and S...

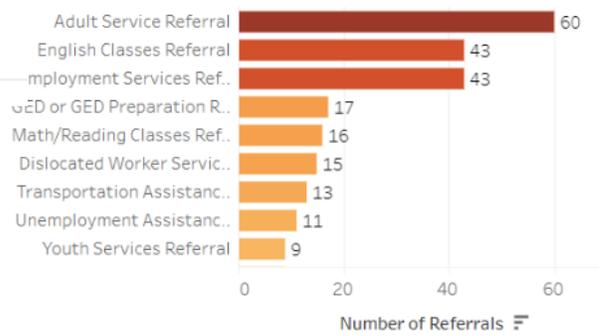
Number of Clients Served by Region



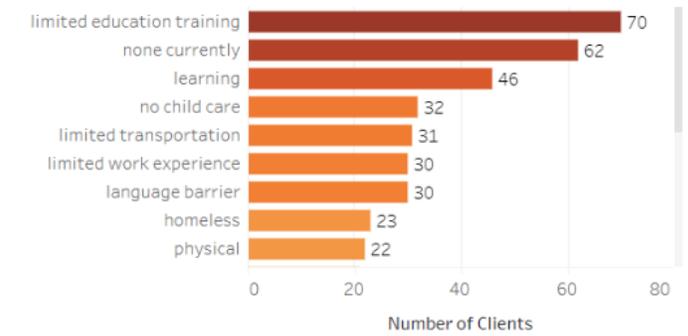
- (All)
- Null
- Shenandoa...
- South Cent...
- West Piedm...



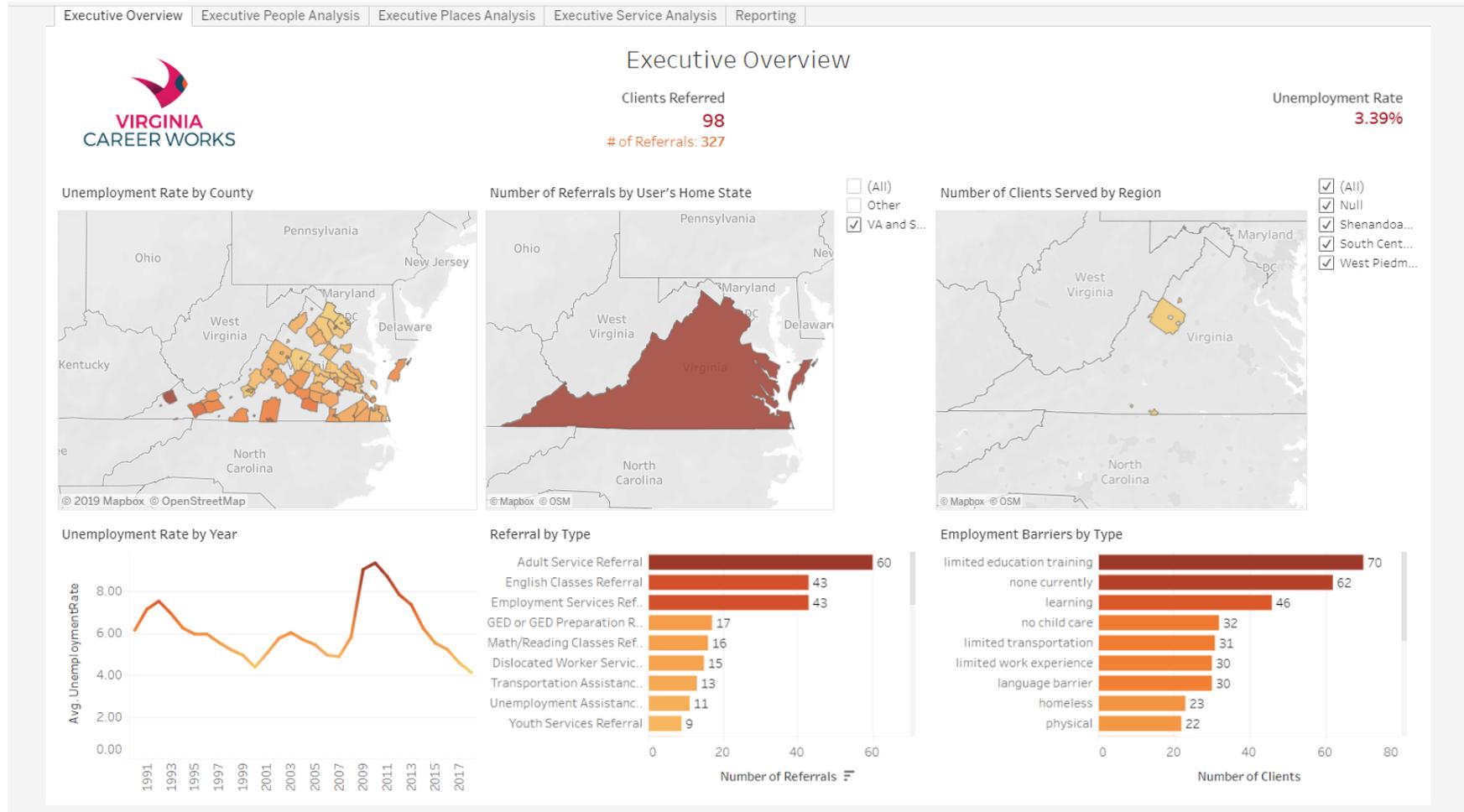
Referral by Type



Employment Barriers by Type



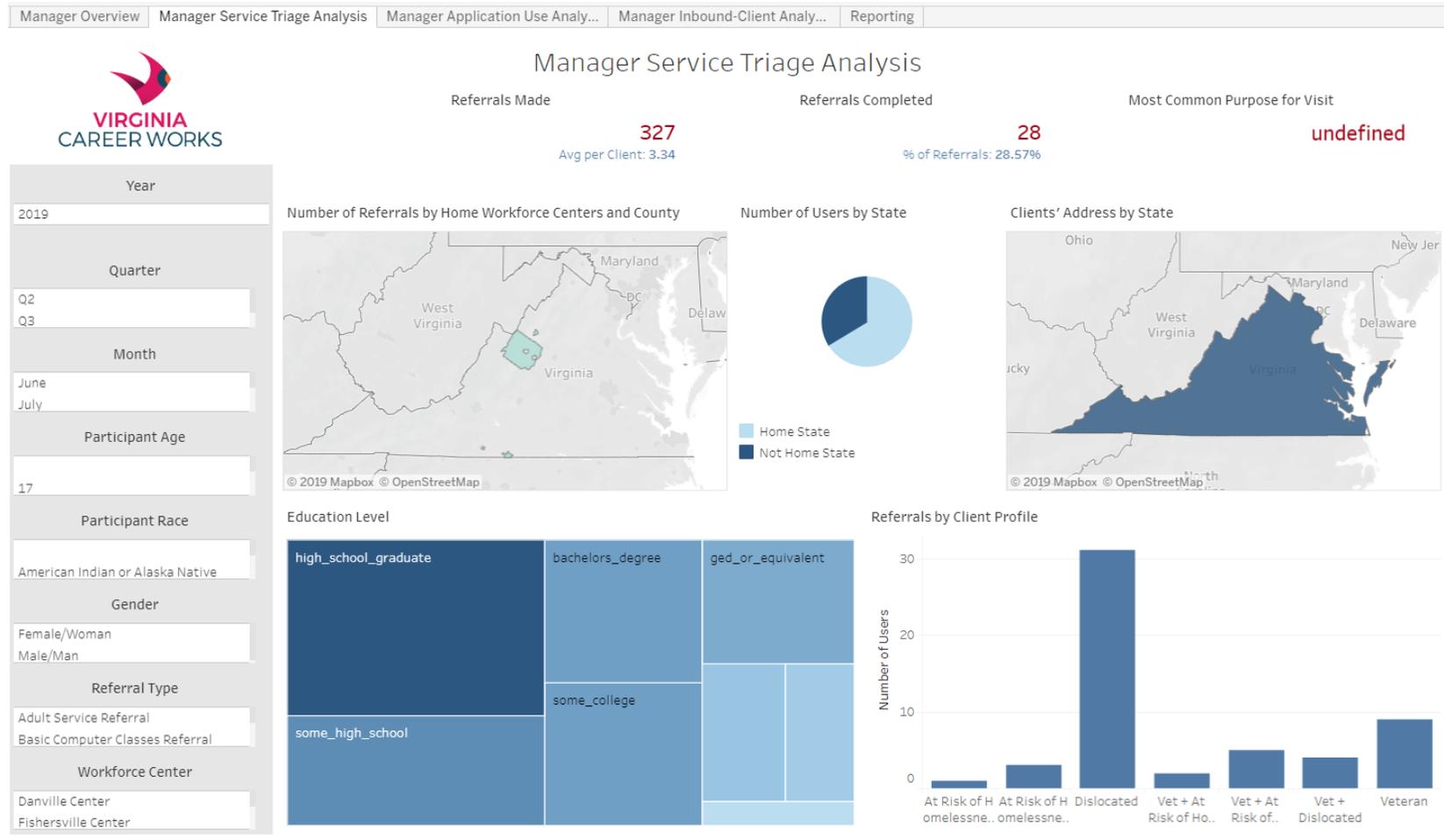
# EXECUTIVE DASHBOARD



# SERVICE MANAGERS DASHBOARD

		Type	Name
<input type="checkbox"/>	☆		Manager Overview
<input type="checkbox"/>	☆		Manager Service Triage Analysis
<input type="checkbox"/>	☆		Manager Application Use Analysis
<input type="checkbox"/>	☆		Manager Inbound-Client Analysis
<input type="checkbox"/>	☆		Reporting

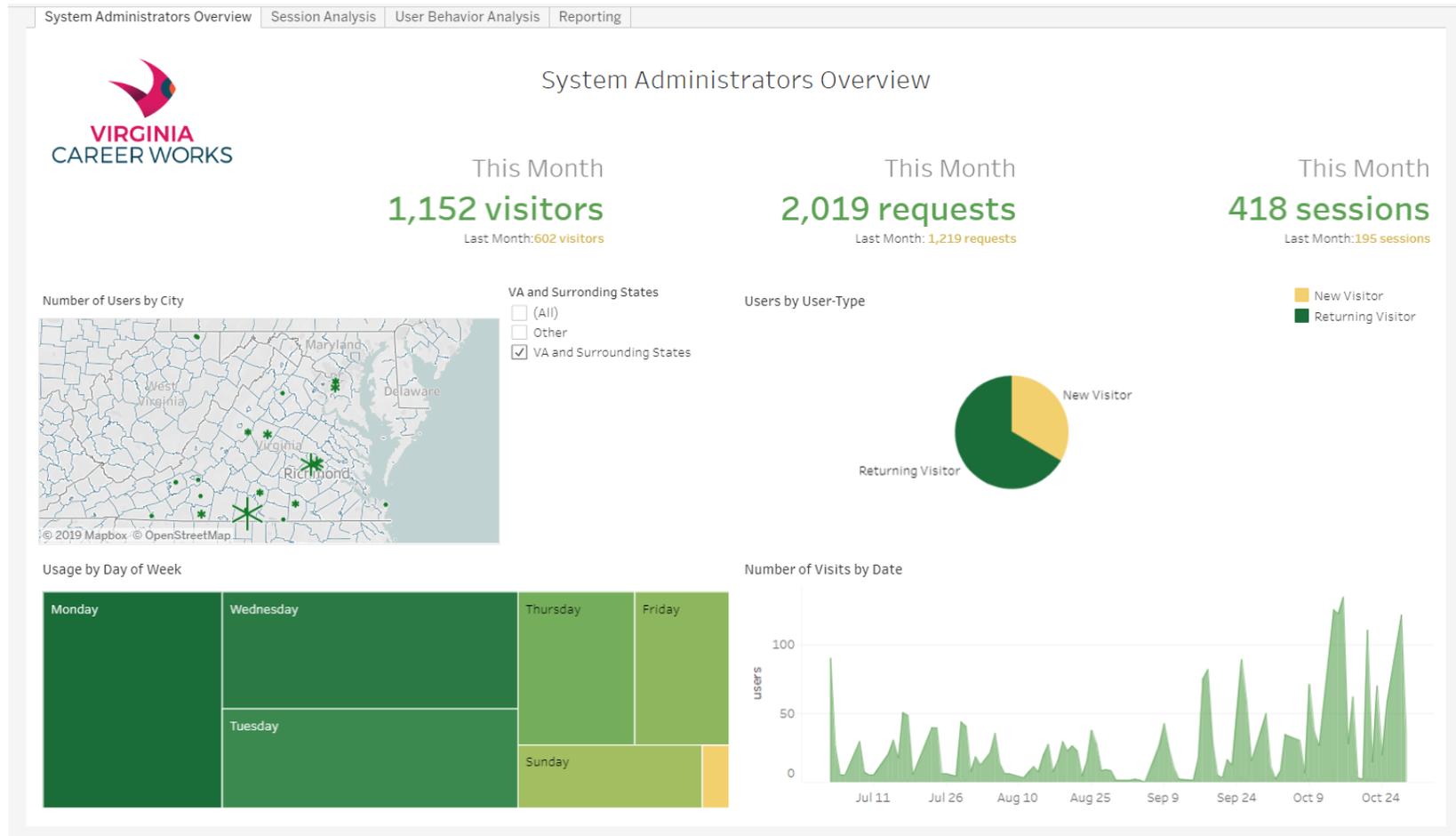
# SERVICE MANAGERS DASHBOARD



# SYSTEM ADMINISTRATORS DASHBOARD

Type	Name
	System Administrators Overview
	Session Analysis
	User Behavior Analysis
	Reporting

# SYSTEM ADMINISTRATORS DASHBOARD



# VIRGINIA WORKFORCE REPORTS

Type	Name
	VA Referrals by Type and Locality
	VA Customer ID by Service Area
	VA Unkown Workforce Center

# VIRGINIA WORKFORCE REPORTS

VA Referrals by Type and Locali... VA Customer ID by Service Area VA Unkown Workforce Center

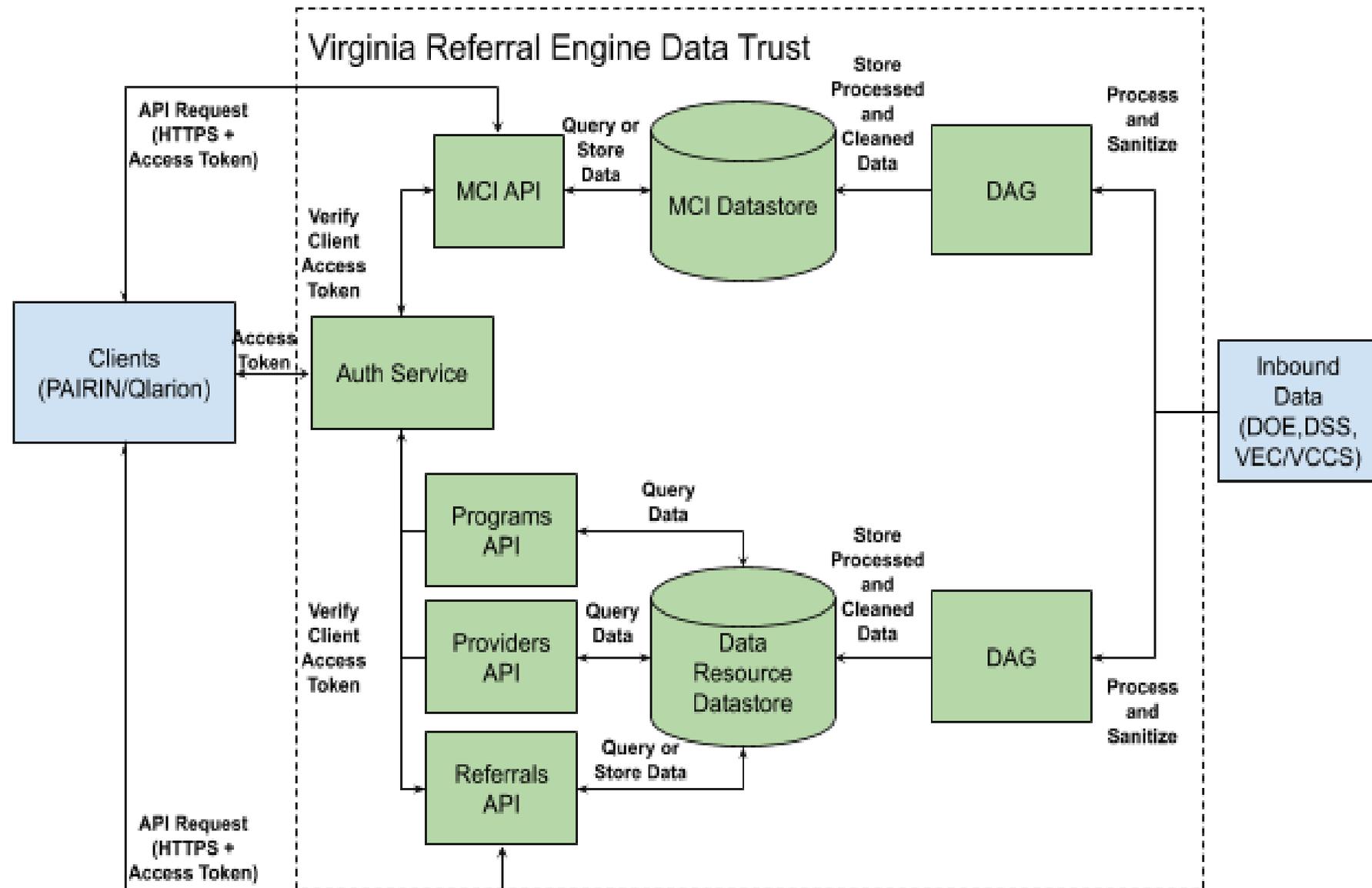


## VA Referrals by Type and Locality

- Workforce Center
- (All)
  - Danville Center
  - Fishersville Center
  - Harrisonburg Cen...
  - Lake County Center
  - Martinsville-Henr...
  - South Boston Cen...
  - Unknown Workfor...

Referral	Danville Ce.. Danville City	Fishersville.. Augusta	Harrisonbu.. Harrisonbu..	Lake Count.. Mecklenburg	Martinsvill.. Martinsvill..	South Bost.. Halifax	Unknown .. No Location	Total by Referral
Adult Service Referral	6	3	16	3	8	90	69	195
Basic Computer Classes R..	3						9	12
Child Care Assistance Ref..	1		1		1		1	4
Clothing Assistance Refer..	1			1				2
Communication Services ..					3		3	6
Create Account		1	1		1	1	5	9
Dislocated Worker Servic..		4	4	2	2	16	8	36
Drug or Alcohol Programs ..	1	1		1		1	2	6
Emergency Bill Payments ..	2				1	1	1	5
Employer Services Referral		1					4	5
Employment for Individua..		3				9	6	18
Employment Services Ref..	6			3		93	27	129
Employment, Education & ..		3			3		12	18
English Classes Referral	3	6		3		78	39	129
Food Assistance Referral	1	1	1		1		2	6
Fuel assistance Referral						1	2	3
GED or GED Preparation R..	3	3			3	30	12	51

# DATA TRUST



# IMPLEMENTATION PLAN

- **OCTOBER – DECEMBER 2019: 3 REGIONS**
- **JANUARY – MARCH 2020: 6 REGIONS**
- **APRIL – JUNE 2020: 6 REGIONS**
- **JULY 1, 2020: FULL STATEWIDE IMPLEMENTATION**

# INFORMATIONAL SLIDES

# COMMONWEALTH DATA COMMISSION

- Executive Branch (Advisory)
- 25 members (8 legislative, 7 citizen, 10 state officials)
- Study, report, advise, and make recommendations to the Governor and the General Assembly on all areas of data governance, quality, sharing, analytics, and performance management
- Cooperate with the Legislative Branch of State Government, the Attorney General's Office, and the judiciary
- Study the operations, management, jurisdiction, powers, and interrelationship of any such department, board, bureau, commission, authority, or other agency that has any direct data operation including collection, storage, management, quality, transfer, and analysis

# COMMONWEALTH DATA COMMISSION

- Coordinate agency programs and activities, to prevent duplication of functions, and to combine all agency data governance plans into a comprehensive interagency state plan
- Review and comment on annual state budget requests
- Define responsibilities among state agencies for various data governance programs and to encourage data sharing among agencies
- Monitor the data governance, sharing, and analytics development efforts of other states and nations
- Develop recommendations that will assist in making Virginia a national leader in data-driven policy and evidenced-based decision making
- Staff assistance shall be provided to the Commission by ...

# DATA OPERATIONS

Recommended organizational structure to support data governance, sharing, and analytics within operational units including Executive, Legislative, and Judicial branches of state government

- Executive Data Board
- Data Governance Council
- Data Stewards Group
- Data Analytics, Innovation, and Performance Management

# EXECUTIVE DATA BOARD

- Set strategic performance objectives
- Advocate for and allocate program and project resources
- Coordinate, prioritize, and oversee multi-agency data sharing and analytics projects
- Remove barriers to implementation

# DATA GOVERNANCE COUNCIL

- Advise the Executive Data Board and the Commonwealth Data Commission on technology, policy, and governance strategies to meet Chapter 679 requirements
- Provide a governance, policy, and technology framework for information sharing, promoting greater utility and accessibility of data assets
- Recommend policies, standards, and guidelines for the formation, operations, and maintenance of the Data Governance Council
- Recommend policies, standards, and guidelines for defining, managing, approving, and implementing 'Open Data' maintained by state agencies
- Report progress, compliance, and performance to the Executive Data Board

# DATA GOVERNANCE AND ANALYTICS PROGRAM OFFICE

- Manages the Commonwealth Data Trust
- Advise executive state agencies and political subdivisions regarding state best practices concerning the creation and maintenance of data.
- Coordinate data analytics and transparency master planning for the executive state agencies and provide leadership regarding state data analytics and transparency.
- Collect, analyze, and exchange government information
- Ensure the security of government information
- Conduct the operational and procedural audits of data sharing partners
- Identify data integration and business intelligence opportunities generating greater efficiencies in state agencies, departments, and institutions
- Leverage data from transactional systems for enterprise-level state business intelligence
- Ensure data integration and sharing is performed in a manner that preserves data privacy, security, and confidentiality in transferring, storing, and accessing data, as appropriate

# DATA STEWARDS GROUP

- Promote and facilitate the secure and appropriate sharing and use of data assets in support of data-driven policymaking, research, analysis, study, and economic development
- Maximize the value and utility of Commonwealth data-related investments and assets
- Promote increased sharing of data between state agencies and localities to provide tangible operational improvements to assist state agencies and localities in fulfilling their respective missions in a coordinated, cost-effective manner
- Provide public access to data assets, where lawful and appropriate, to enhance research, innovation, and insight